

ATTACHMENT G

MATERIAL SAFETY DATA SHEET

USG INTERIORS, INC.
101 S. Wacker Drive
Chicago, IL 60606-4385

Emergency phone: Day 312/606-3759
Night 312/606-4382
Date Issued: November 16, 1990

SECTION I

Product Name: Mineral Fiber Board

Trade Name: Z-FIBER 20 Fire Door Edge Board, Ceiling Board

Chemical Formula: None known

MATERIAL

MATERIAL	Concentration	TLV	PEL	MSDS No.
Mineral Fiber *	60-80	10 mg/m ³	15 mg/m ³	(NE)
Perlite	10-20	10 mg/m ³	15 mg/m ³	93763-70-3
Starch	5-10	10 mg/m ³	15 mg/m ³	09005-25-8
Cellulose	10-20	10 mg/m ³	15 mg/m ³	09005-34-6
- Silica Sand+	0-2	0.1 mg/m ³ (R)	0.1 mg/m ³ (R)	14808-60-7

(+ trace quantity)

* - WHMIS Class D2B (R) - Respirable (NE) - Not Established

SECTION III
PHYSICAL DATA

DENSITY: 16-20 pcf
APPEARANCE AND ODOR: Tan-colored board, low odor.

SECTION IV
FIRE AND EXPLOSION HAZARD DATA

SPECIAL FIRE FIGHTING PROCEDURES: None. Fire hazard Classification per ASTM E-84; Flame Spread 25, Smoke Developed 5.
UNUSUAL FIRE OR EXPLOSION HAZARDS: None known.

SECTION V
HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

RELATES: Data from toxic products may show respiratory irritation, irritation to eyes and skin, and irritation to throat. It is known to irritate the skin, eyes, nose, throat, and respiratory tract and mineral fiber. Long term overexposure to silica (quartz) causes silicosis.

Although non-toxic, there have been reports of irritation caused by dusts. Although temporary workers and have been employed in the manufacture of mineral fiber, it is known that overexposure to silica dust may have a significant impact on the health of workers and the general public.

Another air pollutant is smoking and exposure to mineral fiber dust may have a synergistic effect on the health of workers. Smoking by these workers has been found to contribute to the higher incidence of lung cancer. Because of this it is recommended that people handling this material on a regular basis not smoke.

The scientists reporting these results and independent scientists reviewing these results agree that further study is necessary to determine what other factors might be responsible for this reported increased risk. Further studies are now being conducted to investigate what effects other occupational exposures and life-style had on these workers. The records will also be examined to learn if these workers had exposure to other known carcinogens in the past.

Several research studies using animals have shown that breathing of airborne mineral wool fiber does not cause any lung cancer or other lung diseases.

CARCINOGENIC CLASSIFICATION:

Silica (respirable)

- IARC—2A, NTP—None, OSHA—None

Man-made vitreous fiber (respirable)

- IARC—2B, NTP—None, OSHA—None

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush thoroughly with water. If irritation continues, see physician.

SKIN: Wash skin after exposure.

INGESTION: Call PHYSICIAN

SECTION VI REACTIVITY DATA

STABILITY:

Stable

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Normal cleanup procedures. Avoid creating dust.

WASTE DISPOSAL METHOD: To landfill in accordance with local, state and federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH approved respirator.

VENTILATION: Local exhaust or mechanical ventilation to keep below TLV.

PROTECTIVE EQUIPMENT: Protective gloves and goggles are recommended. Wear loose-fitting clothing closed at the neck and wrists and minimize skin exposure. Wash work clothes separately. Rinse washer thoroughly after use.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a dry place. When cutting or breaking, avoid creating excessive dust.









OTHER PRECAUTIONS: During the initial firing of a vessel insulated with this product, if the insulation temperature exceeds approximately 450° F the combustion products of a paper fire will be emitted. If the initial firing or curing is done in an oxygen deficient atmosphere, carbon monoxide and aldehydes are likely to be produced. Therefore the adjacent area must be well ventilated.

For further technical information contact:

Technical Manager, Dept. 470, USG INTERIORS, INC., 101 South Wacker Drive, Chicago, IL 60606-4385, PHONE: (312) 606-4762

(60)

This Material Handling sheet is to inform both staff and inmates of the proper equipment to be used in handling material safely. Below is a list of the safety equipment which is available through staff. Those items that are marked with an X MUST be used for safe handling of this particular material. The Health, Flammability & Reactivity chart reflects this products hazards by using the numbers 0 - 4.

Safety Glasses	Gloves	Splash Goggles	Dust MASK Respirator	0 - zero least hazardous 4 - four most hazardous						
										
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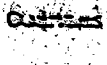
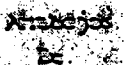





Manejo de Material y Informacion de Proteccion Personal

Nombre de Producto: U.S.G. INTERIORS MICORE BOARD

Esta hoja de Manejo de Material es para informar a el staff y el personal, sobre el uso adecuado del equipo a utilizar en el seguro manejo del material.

Abajo esta la lista del equipo de seguridad disponible por el staff. Los articulos marcados con una X DEBEN ser utilizados par el seguro uso del material especifico.

El cuadro de Salud, Flamabilidad y Reactividad ensena los peligros de este producto, usando los numeros del 0 - 4.

Seguridad	Gloves	Respirador	Proteccion	0 - menos peligrosos 4 - mas peligrosos						
										
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